



IAP7 Rec'd PCT/PTO 08 JUN 2006

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of: **Minoru AKAISHI et al.**

Group Art Unit: 3726

Serial Number: 10/539,507

Examiner: Unassigned

Filed: June 17, 2005

Confirmation Number: 4605

For: **HEAT-RESISTANT COMPOSITE DIAMOND SINTERED PRODUCT  
AND METHOD FOR PRODUCTION THEREOF**

Attorney Docket Number: 052550

Customer Number: 38834

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. §1.97(b)**

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

June 8, 2006

Sir:

In compliance with 37 C.F.R. §1.56, Applicants direct the attention of the Patent and Trademark Office to the documents listed on the attached PTO/SB/08. This paper is being filed within the time periods set forth in 37 C.F.R. §1.97(b). A copy of each non-U.S. document is enclosed herewith.

If there are any fees due in connection with the filing of this paper, please charge Deposit Account No. 50-2866.

Respectfully submitted,

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Enclosures: PTO/SB/08  
13 Documents



Combined Form PTO/SB/08A&B  <b><u>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</u></b>  (use as many sheets as necessary)				Complete if Known	
				Application Number	10/539,507
				Confirmation Number	4605
				Filing Date	June 17, 2005
				First Named Inventor	Minoru AKAISHI et al.
				Art Unit	3726
				Examiner Name	Unassigned
Sheet	1	of	1	Attorney Docket Number	052550

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code <sup>2</sup> (if known)		
	1	US 3,816,085	A	06-11-1974	Hall
		US			
		US			
		US			

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
	2	JP	02-030668	A1	02-01-1990	Nippon Oil & Fats Co. Ltd.	Abstract
	3	JP	04-261703	A1	09-17-1992	Sumitomo Electric Ind. Ltd.	Abstract
	4	WO	02/08122	A1	01-31-2002	The Ishizuka Research Institute, Ltd.	Abstract
	5	JP	03-159964	A1	07-09-1991	Nat Inst for Res Inorganic Mat	Abstract
	6	JP	2002-187775	A1	07-05-2005	Japan Science & Technology Corp.	Abstract
	7	JP	46-5204	A1	11-26-1971	General Electric Company	None
	8	JP	62-091469	A1	04-25-1987	Nat Inst Res Inorganic Mat	None

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.		Translation <sup>6</sup>
	9	M. Akaishi et al., "Diamond and Related Materials" vol. 5 p. 34-37, Elsevier Science S.A, 1996.		n/a
	10	M. Akaishi et al., "Synthesis of fine-grained polycrystalline diamond with carbonate as a sintering agent", 41 <sup>st</sup> High Pressure Seminar (2000), The Japan Society of High Pressure Science and Technology, 2D01, p108		n/a
	11	M. Akaishi et al. "Synthesis of fine-grained polycrystalline diamond and its properties", Proceedings of the 8 <sup>th</sup> NIRM International Symposium on Advanced Materials, p. 33-34		n/a
	12	Y. Hosokawa et al., "Sintering behavior of diamond powder with an average grain size of 50 nanometer under high pressure", 42 <sup>nd</sup> High Pressure Seminar (2001), The Japan Society of High Pressure Science and Technology, 2B06, p89"		n/a
	13	T. IRIFUNE ET AL., "Characterization of polycrystalline diamonds synthesized by direct conversion of graphite using multianvil apparatus", 6 <sup>th</sup> High Pressure Mineral Physics Seminar, 28 August, 2002, Verbania Italy.		n/a
	14	English translation of International Preliminary Report on Patentability of PCT/JP2003/014763 mailed on November 19, 2004		n/a

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov), MPEP 901.04 or in the comment box of this document. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to indicate here if English language Translation is attached.